CONSTRUCTION PERMITS SHALL AUTOMATICALLY BECOME INVALID UNLESS AN INSPECTION AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 12 MONTHS OF BEING ISSUED.

CONSTRUCTION PERMITS SHALL REQUIRE AN INSPECTION AT A MINIMUM OF EVERY 12 MONTHS OR SUCH PERMIT SHALL BECOME INVALID.

THIS RESIDENTIAL SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED AS PER NFPA 13D OR THE CALIFORNIA RESIDENTIAL CODE AND VENTURA COUNTY FIRE PROTECTION DISTRICT REGULATIONS.

ONLY LISTED AND APPROVED DEVICES SHALL BE INSTALLED IN THIS SYSTEM (EXCEPT TANKS).

EXCEPTION: UNLESS APPROVED BY AN ENGINEER.

ONLY NEW LISTED RESIDENTIAL SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF THIS SPRINKLER SYSTEM

ALL PIPING SHALL BE PROVIDED WITH HANGERS AND SHALL BE SUPPORTED PER CODE AND MANUFACTURER'S SPECIFICATIONS.

ALL PIPING SHALL BE HUNG FROM STRUCTURAL MEMBERS.

ALL CPVC PIPING SHALL BE INSTALLED BY PERSONS WHO HAVE BEEN CERTIFIED BY THE MANUFACTURER FOR INSTALLATION OF CPVC PIPING.

ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATING ITS FUNCTION PER THE VCFPD PLAN SUBMITTAL SHEET (SEE EXHIBIT C).

UNDERGROUND MAINS AND LEAD-IN CONNECTIONS SHALL BE FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING.

DEDICATED UNDERGROUND MAINS AND LEAD-IN CONNECTIONS SHALL BE VISUALLY INSPECTED UNDER NORMAL SYSTEM OPERATING PRESSURE BY THE VENTURA COUNTY FIRE PROTECTION DISTRICT'S FIRE PREVENTION BUREAU PRIOR TO THE PIPE BEING BURIED.

A FLUSH OF DEDICATED UNDERGROUND MAINS AND LEAD-IN CONNECTIONS SHALL BE WITNESSED BY THE VENTURA COUNTY FIRE PROTECTION DISTRICT'S FIRE PREVENTION BUREAU PRIOR TO CONNECTING TO THE OVERHEAD FIRE SPRINKLER SYSTEM

THE RESIDENTIAL SPRINKLER SYSTEM SHALL BE TESTED AND INSPECTED AT BOTH ROUGH AND FINAL STAGES BY THE VENTURA COUNTY FIRE PROTECTION DISTRICT'S FIRE PREVENTION BUREAU, PRIOR TO OCCUPANCY BEING GRANTED. CALL ONE WORKING DAY IN ADVANCE TO SCHEDULE ALL INSPECTIONS.

A LISTED RESIDENTIAL CHECK VALVE PER SECTION 5.3 SHALL BE INSTALLED ON THE SYSTEM SIDE OF THE MAIN CONTROL VALVE.

VCFD VERBATIM NOTES

REQUIRED FLOW \_\_\_\_\_\_ Ø \_\_\_\_\_ PSI

HYDRAULIC INFO. (MOST DEMANDING)

CHECK VALVE - MAKE / MODEL: \_

LARGEST SINGLE COMPARTMENT:

GREATEST INTERIOR CEILING SLOPE:

VENTURA COUNTY FIRE JURISDICTION.

\*NO GALVANIZED OR STEEL PIPE ALLOWED IN

SYSTEM SPECIFIC DATA

SPACING:

LOCATION:

SPRINKLER MODEL:

NUMBER OF HEADS: .

FLOW TEST DATA

FLOW TEST: \_

WATER PURVEYOR:

TALLEST ROOM HEIGHT:

SYSTEM PIPING TYPE & SIZE:

SPRINKLER K-FACTOR:

FIRE SPRINKLER A MAIN CONTROL

FIRE SPRINKLER В SHUT OFF AT WATER METER

# SIGN AT SINGLE CONTROL VALVE

WARNING: THE WATER SYSTEM FOR THIS HOME SUPPLIES FIRE SPRINKLERS THAT REQUIRE CERTAIN FLOWS ND PRESSURES TO FIGHT A FIRE. DEVICES THAT RESTRICT THE FLOW OR DECREASE THE PRESSURE OR AUTOMATICALLY SHUT OFF THE WATER TO THE FIRE SPRINKLER SYSTEM SUCH AS WATER SOFTENERS, FILTRATION SYSTEMS, AND AUTOMATIC SHUTOFF VALVES, SHALL NOT BE ADDED TO THIS SYSTEM WITHOUT A REVIEW OF THE FIRE SPRINKLER SYSTEM BY A FIRE PROTECTION SPECIALIST. DO NOT REMOVE THIS SIGN.

\* PLACE SIGN AT DOMESTIC / FIRE SPRINKLER SHARED SYSTEMS ONLY.

10.2.1. FOR EACH OF THE FOLLOWING SITUATIONS, THE NUMBER OF

SPRINKLERS IN THE DESIGN AREA SHALL BE ALL OF THE SPRINKLERS WITHIN A

COMPARTMENT, UP TO A MAXIMUM OF TWO SPRINKLERS, THAT REQUIRE THE

1) A FLAT. SMOOTH. HORIZONTAL CEILING WITH NO BEAMS UP TO A MAXIMUM

2) A FLAT, SMOOTH, HORIZONTAL CEILING, WITH A MAXIMUM CEILING HEIGHT

BEAMED CEILING SHALL BE A MAXIMUM OF 600 SQ. FT. IN AREA. THE HIGHEST

SPRINKLER IN THE COMPARTMENT SHALL BE ABOVE ALL OPENINGS FROM THE

3) A SMOOTH, FLAT, SLOPED CEILING WITH NO BEAMS UP TO A MAXIMUM SLOPE

OF 8 IN 12. THE HIGHEST PORTION OF THE CELING SHALL NOT BE MORE THAN

COMPARTMENT CONTAINING THE SLOPED CEILING INTO ANY COMMUNICATING

4) A SLOPED CEILING WITH BEAMS UP TO 14 IN. (350 MM) DEEP WITH PENDENT

SLOPED, BEAMED CELING SHALL BE A MAXIMUM OF 600 SQ. FT. IN AREA. THE

SLOPE OF THE CELING SHALL BE BETWEEN 2 IN 12 AND 8 IN 12. THE HIGHEST

PORTION OF THE CEILING SHALL NOT BE MORE THAN 24 FT. (7.3 M) ABOVE THE

FLOOR. THE HIGHEST SPRINKLER IN THE SLOPED PORTION OF THE CEILING

SHALL BE ABOVE ALL OPENINGS FROM THE COMPARTMENT CONTAINING THE

5) A SLOPED CEILING WITH BEAMS OF ANY DEPTH WITH SIDEWALL OR PENDENT

SPRINKLERS IN EACH POCKET FORMED BY THE BEAMS. THE COMPARTMENT

CONTAINING THE SLOPED, BEAMED CEILING SHALL BE A MAXIMUM OF 600 SQ.

FT. IN AREA. THE SLOPE OF THE CEILING SHALL BE BETWEEN 2 IN 12 AND 8 IN

12. THE HIGHEST PORTION OF THE CEILING SHALL NOT BE MORE THAN 24 FT.

10.2.2. LISTED FLOWS ASSOCIATED WITH TESTING UNDER A SMOOTH, FLAT,

10.2.3. FOR SITUATIONS NOT MEETING ONE OF THE CONDITIONS IN 10.2.1,

RESIDENTIAL SPRINKLERS LISTED FOR USE IN SPECIFIC CEILING

HORIZONTAL 8 FT. (2.4 M) HIGH CEILING SHALL BE PERMITTED TO BE USED FOR

SPRINKLERS UNDER THE BEAMS. THE COMPARTMENT CONTAINING THE

24 FT. (7.3 M) ABOVE THE FLOOR. THE HIGHEST SPRINKLER IN THE SLOPED

PORTION OF THE CEILING SHALL BE ABOVE ALL OPENINGS FROM THE

OF 24 FT. (7.3M), WITH BEAMS UP TO 14 IN. (350 MM) DEEP WITH PENDENT

SPRINKLERS UNDER THE BEAMS. THE COMPARTMENT CONTAINING THE

COMPARTMENT INTO ANY COMMUNICATING SPACES.

SLOPED CEILING INTO ANY COMMUNICATING SPACES.

THE CEILING CONFIGURATIONS REFERENCED IN 10.2.1.

**WARNING SIGN** 

NUMBER OF DESIGN SPRINKLERS:

GREATEST HYDRAULIC DEMAND:

OF 24 FT. (7.3 M) ABOVE THE FLOOR.

3/4" OR 1" WATER METER

-3/4" OR 1" WATER METER LISTED RESIDENTIAL CHECK —

SHUT OFF VALVE

SERVICE LINE

SERVICE LINE

SERVICE LINE

WATER PURVEYORS:

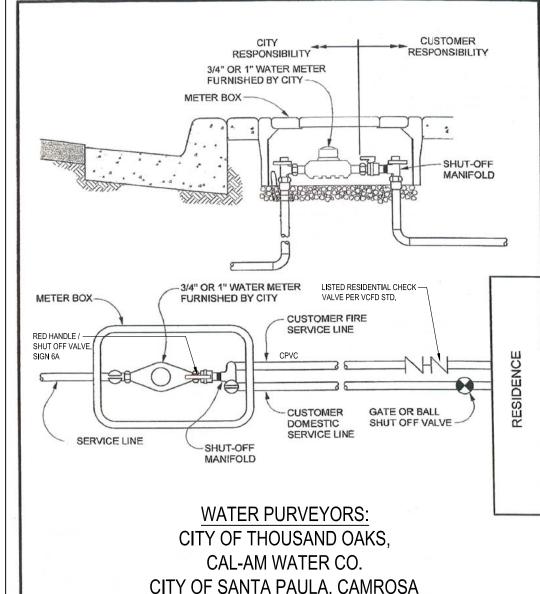
CITY OF CAMARILLO

CHANNEL ISLANDS

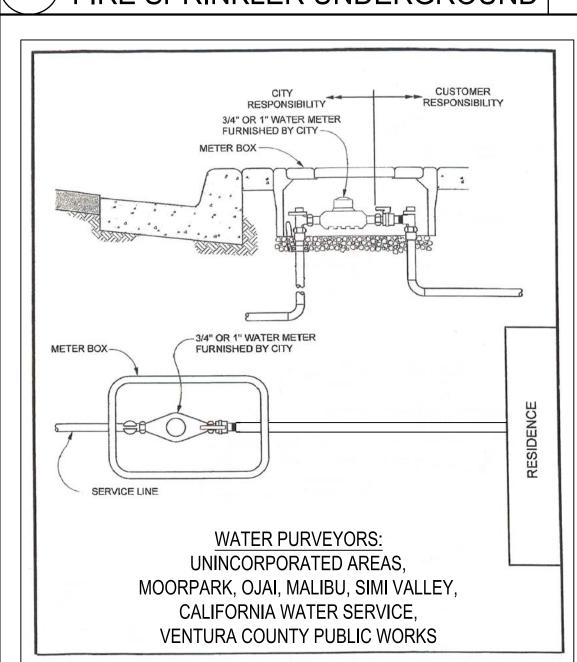
FIRE SPRINKLER UNDERGROUND

CUSTOMER GATE OR BALL

DOMESTIC SHUT OFF VALVE -



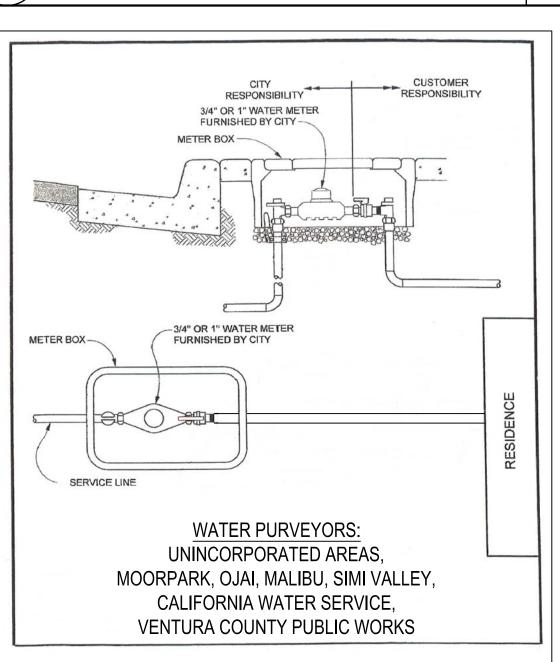
## FIRE SPRINKLER UNDERGROUND



CUSTOMER

- SHUT-OFF MANIFOLD

RESPONSIBILITY



FIRE SPRINKLER PURPOSE: TO PROVIDE IMPROVED PROTECTION AGAINST INJURY AND LOSS OF LIFE.

PRIMARY GOAL: LIFE SAFETY. SECONDARY GOAL: PROPERTY PROTECTION.

WHEN SPRINKLERS ARE PRESENT, THE RISK OF DYING IN A HOME FIRE DECREASES BY NEARLY 80%.

SPRINKLERS REDUCE THE AVERAGE PROPERTY LOSS BY 71%.

SPRINKLER SYSTEMS ARE DESIGNED TO CONTROL A FIRE FOR A SUFFICIENT TIME TO ENABLE PEOPLE TO ESCAPE. TEN MINUTES IS CONSIDERED AN ADEQUATE AMOUNT OF TIME.

SPRINKLER SYSTEM PIPING IS SIZED TO ACCOMMODATE A MAXIMUM OF TWO SPRINKLERS FLOWING PLUS A SMALL DOMESTIC WATER ALLOWANCE.

### **TYPICAL QUESTIONS:**

- PIPING INSULATION WHERE

REQUIRED

KEEP CEILING FANS A MINIMUM OF 3'

ISTED PRESSURE RELIEF VALVE

RAIN MINIMUM 1/2" PER NFPA -

13D, 7.2. OPEN DRAIN TO TEST

DOMESTIC SHUT OFF VALVE —

■ DOMESTIC LINE

AIN CONTROL VALVE PER VCFD

DOMESTIC LINE.

RESIDENTIAL SPRINKLER INSTALLATION STD.

VALVE WILL SHUT OFF FIRE SPRINKLERS &

Δ 4. . .

SYSTEM ANNUALLY.

DRAIN TO EXTERIOR -

FOR SYSTEMS WITH NORMAL

OPERATING PRESSURE IN

EXCESS OF 100 PSI.

RAIN VALVE

FROM CENTER OF FAN TO SPRINKLER

IJ⊌U□□□

SIGN - 6A -

FIRE SPRINKLER & DOMESTIC RISER

- DO NOT PAINT SPRINKLER HEADS,

KEEP CEILING FANS A MINIMUM

OF 3' FROM CENTER OF FAN TO

- ELECTRICAL WIRING

REQUIRED PER NFPA 13D

- APPROVED DUAL CHECK VA A CHECK VALVE LISTED FO

SYSTEM SIDE OF THE MAIN CONTROL VALVE PER VCFD STD

RESIDENTIAL FIRE SPRINKLERS SHALL BE INSTALLED ON THE

- PIPING INSULATION WHERE

- ELECTRICAL WIRING

REQUIRED

HOW MANY FIRE SPRINKLERS WILL ACTIVATE WHEN THERE IS A FIRE? ONLY THE SPRINKLERS IN THE ROOM OR AREA OF THE FIRE WILL ACTIVATE. BASED ON RESIDENTIAL FIRE SPRINKLER DESIGNS, MOST ROOMS WILL HAVE TWO SPRINKLER HEADS ACTIVATE.

IS A RESIDENTIAL FIRE SPRINKLER SYSTEM REQUIRED TO BE MONITORED BY AN ALARM COMPANY?

IS A SEPARATE SHUT-OFF VALVE PERMITTED FOR THE RESIDENTIAL SPRINKLER

NO. THERE IS NO REQUIREMENT FOR CONNECTION TO AN ALARM COMPANY.

SYSTEM? NO. THE NFPA STANDARD IS THAT FIRE SPRINKLERS CANNOT BE SHUT-OFF INDEPENDENT OF THE DOMESTIC WATER SUPPLY TO THE HOME. A SHUT OFF VALVE IS INSTALLED BEFORE THE SPLIT BETWEEN SPRINKLERS AND DOMESTIC AND AN ADDITIONAL VALVE IS INSTALLED FOR THE DOMESTIC LATERAL. THIS ALLOWS WORKING ON PLUMBING FIXTURES WHILE STILL RETAINING FIRE SPRINKLER PROTECTION. YOU CAN VIEW PHOTOS OF FIRE SPRINKLER

IS THE INSTALLATION OF A WATER SOFTENER AFFECTED BY THE NEW RESIDENTIAL FIRE SPRINKLER REQUIREMENT?

COMPONENTS IN THE FOLLOWING SECTION OF THIS DOCUMENT

FOR A DUAL-PURPOSE PIPING SYSTEM, A WATER SOFTENER DEVICE HAS A SIGNIFICANT EFFECT ON AVAILABLE WATER PRESSURE AND USE OF SUCH DEVICES MAY BE PRECLUDED. FOR STAND-ALONE PIPING SYSTEMS, THE FIRE SPRINKLER PIPING WILL BE CONNECTED AHEAD OF THE WATER SOFTENER AND WILL HAVE NO EFFECT ON FIRE SPRINKLER OPERATION.

## HOMEOWNER INFORMATION

THE DESIGN AND INSTALLATION OF A FIRE PROTECTION SYSTEM, EXCLUDING AN ELECTRICA ALARM SYSTEM, FOR A ONE OR TWO FAMILY DWELLING UP TO THE UTILITY METER FOR THE PROPERTY MAY BE INSTALLED BY ANY OF THE FOLLOWING: 1) A CONTRACTOR HOLDING A FIRE PROTECTION CONTRACTOR CLASSIFICATION (C-16). 2) A CONTRACTOR HOLDING A PLUMBING CONTRACTOR LICENSE (C-36). 3) AN OWNER-BUILDER OF AN OWNER-OCCUPIED, SINGLE FAMILY DWELLING, IF NOT MORE THAN TWO SINGLE FAMILY DWELLINGS ON THE SAME PARCEL ARE CONSTRUCTED WITHIN

### PLANS SPECIFICATIONS CHECKLISTS

1) PLANS SHALL BE DRAWN ON A MINIMUM OF 24"x36" PAPER AND SHALL BE DRAWN TO AN INDICATED SCALE OF NOT LESS THAN 1/8 INCH = 1 FOOT.

2) NAME AND OWNER AND / OR OCCUPANT.

3) LOCATION OF THE PROJECT, INCLUDING ASSESSOR'S PARCEL (APN), STREET, NUMBER,

4) NAME OF WATER PURVEYOR IF APPLICABLE.

5) NAME OF SPRINKLER INSTALLER, ADDRESS, PHONE NUMBER, TYPE OF LICENSE AND

6) SITE PLAN SHOWING TANK, PUMP, STRUCTURES, UNDERGROUND PIPE SIZE AND TYPE. POINT OF SUPPLY CONNECTIONS, DEPTH OF BURY, TYPE AND SIZE OF VALVES OR METERS.

7) PIPING PLAN SHOWING TANK, PUMP, AND STRUCTURE ELEVATIONS AS THEY RELATE TO

8) FULL HEIGHT CROSS-SECTION SHOWING BUILDING CONSTRUCTION TYPES, SLOPED, AND

BEAMED CEILING LOCATIONS.

9) RISER DETAIL SHOWING SYSTEM SPLIT, PRESSURE GAUGE, CHECK VALVE, MAIN CONTROL VALVE, RELIEF VALVE (WHERE APPLICABLE), MAIN DRAIN AND DOMESTIC SHUT-OFF VALVE

10) INDICATE THE MANUFACTURER, MODEL, TYPE AND PUMP CURVE OF THE BOOSTER PUMP (WHERE APPLICABLE).

11) DETAILED CALCULATIONS.

EACH OTHER.

12) SPRINKLER HEAD SPACING (DIMENSIONED)

13) SHOW CLEARLY ALL NON-SPRINKLERED AREAS.

14) INDICATE MANUFACTURER, STYLE, MODEL, ORIFICE SIZE AND 'K' FACTOR OF EACH SPRINKLER USED.

15) THE MAIN DRAIN SHALL BE A MINIMUM 1/2 INCH.

16) TYPE AND SIZE OF EACH PIPE.

17) HANGER DETAIL.

18) THE MAIN CONTROL VALVE SHALL BE LOCATED ABOVE GRADE AND READILY ACCESSIBLE

19) USE OF EACH ROOM.

20) LOCATION OF HEAT SOURCES.

21) WATER FLOW INFORMATION INCLUDING: FLOW LOCATION, STATIC PRESSURE (PSI), RESIDUAL PRESSURE (PSI), FLOW (GPM), DATE, TIME, AND WHO CONDUCTED THE TEST OR SUPPLIED THE INFORMATION.

VCFD RECORD NUMBER

THIS DOCUMENT PROVIDED TO THE

CONTRACTOR AND HOMEOWNER BY

VENTURA COUNTY FIRE DEPT. FOR

MORE INFORMATION CONTACT

HEADQUARTERS AT 805.389.9738 OR

VISIT OUR WEBSITE AT VCFD.ORG.

VCFD RESIDENTIAL SPRINKLER STD. **EXHIBIT A** 

VCFD STAMPS

CONFIGURATIONS SHALL BE PERMITTED TO BE USED IN ACCORDANCE WITH THEIR LISTING.

NFPA 13D

ABOVE THE FLOOR.

10.2.4. FOR SITUATIONS NOT MEETING ONE OF THE CONDITIONS IN 10.2.1 AND

10.2.3, THE NUMBER OF SPRINKLERS IN THE DESIGN AREA SHALL BE NOT LESS THAN (3) SPRINKLER HEADS, OR DETERMINED IN CONSULTATION WITH THE AUTHORITY HAVING JURISDICTION AS APPROPRIATE FOR THE CONDITIONS.

FIRE SPRINKLER UNDERGROUND

STED PRESSURE RELIEF VALVE FOR SYSTEMS WITH NORMAL OPERATING PRESSURE IN EXCESS OF 100 PSI. FIRE SPRINKLER BELL NO REQUIRED PER NFPA 131 RAIN VALVE -DRAIN MINIMUM 1/2" PER NFPA 13D, 7.2. OPEN DRAIN TO TEST SYSTEM ANNUALLY. DRAIN TO EXTERIOR —

RESIDENTIAL FIRE SPRINKLERS SHALL BE INSTALLED ON THE SYSTEM SIDE OF THE MAIN CONTROL VALVE PER VCFD STD.

Δ 4 . . Δ

FIRE SPRINKLER SHUT OFF AT WATER METER. — C.P.V.C. FOR DEDICATED UNDERGROUND. VISUAL ROUGH / HYDRO AND FLUSH INSPECTIONS REQUIRED

FIRE SPRINKLER W/ DEDICATED UNDERGROUND

FIRE SPRINKLER INSTALLER CERTIFIES ALL INFORMATION ON SUBMITTED PLAN TO BE TRUE & CORRECT

Updated: 9/25/2020